

CLAIMS

What is claimed is:

1. A mounting system for detachably coupling a pair of bodies, a first one of said pair of bodies including a flat panel display device, a second one of said pair of bodies including a fixed structure, the system comprising:

a plurality of fastening buttons adapted to be operably coupled to one of said pair of bodies, each fastening button having a base portion, a head portion, and a throat portion therebetween; and

a display connecting portion adapted to be operably coupled to the other of said pair of bodies and having a plurality of keyhole slots defined therein for receiving and engaging the fastening buttons, each keyhole slot having an access portion adapted to receive the head portion of one of said fastening buttons therethrough, said access portion having a periphery and a notch in the periphery for receiving and engaging the throat portion of the fastening button, said display connecting portion further having a ramped region extending from the periphery of the access portion of each keyhole slot in a direction opposite the notch, wherein said ramped region has an inner surface adapted to engage and guide the head portion of the fastening button when the fastening button is disengaged from the keyhole slot.

2. The system of claim 1, wherein said fastening buttons are formed from a substantially electrically insulating material.

3. The system of claim 2, wherein said material is Nylon 6-6 or PVC.
4. The system of claim 1, wherein said fastening buttons are operably coupled to the first one of said pair of bodies and said display connecting portion is operably coupled to the second one of said pair of bodies.
5. The system of claim 4, wherein the second one of said pair of bodies includes an adjustable mounting system operably coupled with said fixed structure, and wherein said display connecting portion is operably coupled with said adjustable mounting system.
6. The system of claim 1, wherein said fastening buttons are operably coupled to the second one of said pair of bodies, and said display connecting portion is operably coupled to the first one of said pair of bodies.
7. The system of claim 6, wherein the second one of said pair of bodies includes an adjustable mounting system operably coupled with said fixed structure, and wherein said fastening buttons are operably coupled with said adjustable mounting system.
8. The system of claim 1, wherein said keyhole slots are arranged in a polygonal or circular pattern, each said keyhole slot being spaced a substantially equal distance from each adjacent keyhole slot.

9. The system of claim 8, wherein the flat panel display can be selectively interchangeably oriented in at least a horizontal and a vertical orientation.

10. A mounting system for detachably coupling a pair of bodies, a first one of said pair of bodies including a flat panel display device, a second one of said pair of bodies including a fixed structure, the system comprising:

a plurality of fastening buttons adapted to be operably coupled to one of said pair of bodies, each fastening button having a base portion, a head portion, and a throat portion therebetween; and

a display connecting portion adapted to be operably coupled to the other of said pair of bodies and having a plurality of keyhole slots defined therein for receiving and engaging the fastening buttons, each keyhole slot having an access portion adapted to receive the head portion of one of said fastening buttons therethrough, said access portion having a periphery and a notch in the periphery for receiving and engaging the throat portion of the fastening button, said display connecting portion further having means for engaging and guiding the head portion of the fastening button when the fastening button is disengaged from the keyhole slot.

11. The system of claim 10, wherein said fastening buttons are formed from a substantially electrically insulating material.

12. The system of claim 11, wherein said material is Nylon 6-6 or PVC.

13. The system of claim 10, wherein said fastening buttons are operably coupled to the first one of said pair of bodies and said display connecting portion is operably coupled to the second one of said pair of bodies.
14. The system of claim 13, wherein the second one of said pair of bodies includes an adjustable mounting system operably coupled with said fixed structure, and wherein said display connecting portion is operably coupled with said adjustable mounting system.
15. The system of claim 10, wherein said fastening buttons are operably coupled to the second one of said pair of bodies, and said display connecting portion is operably coupled to the first one of said pair of bodies.
16. The system of claim 15, wherein the second one of said pair of bodies includes an adjustable mounting system operably coupled with said fixed structure, and wherein said fastening buttons are operably coupled with said adjustable mounting system.
17. The system of claim 10, wherein said keyhole slots are arranged in a polygonal or circular pattern, each said keyhole slot being spaced a substantially equal distance from each adjacent keyhole slot.
18. The system of claim 17, wherein the flat panel display can be selectively interchangeably oriented in at least a horizontal and a vertical orientation.

19. A method for detachably coupling a pair of bodies, a first one of said pair of bodies including a flat panel display device, a second one of said pair of bodies including a fixed structure, the method comprising the steps:

attaching a plurality of electrically non-conductive fastening buttons to one of said pair of bodies, each fastening button having a base portion, a head portion, and a throat portion therebetween;

attaching a display connecting portion to the other of said pair of bodies, said display connecting portion having a plurality of keyhole slots defined therein for receiving and engaging the fastening buttons, each keyhole slot having an access portion adapted to receive the head portion of one of said fastening buttons therethrough, said access portion having a periphery and a notch in the periphery for receiving and engaging the throat portion of the fastening button; and

engaging said fastening buttons in said keyhole slots.

20. An electrically isolated flat panel display and mounting system attachable to a fixed structure comprising:

a flat panel display device;

a support structure adapted to be attached to the fixed structure;

a plurality of electrically non-conductive fastening buttons attached to the flat panel display device, each fastening button having a base portion, a head portion, and a throat portion therebetween;

a display connecting portion operably coupled to said support structure and having a plurality of keyhole slots defined therein for receiving and engaging the fastening buttons, each keyhole slot having an access portion adapted to receive the head portion of one of said fastening buttons therethrough, said access portion having a periphery and a notch in the periphery for receiving and engaging the throat portion of the fastening button.

21. The display and mounting system of claim 20, wherein said display connecting portion has a ramped region extending from the periphery of the access portion of each keyhole slot in a direction opposite the notch, and wherein said ramped region has an inner surface adapted to engage and guide the head portion of the fastening button when the fastening button is engaged and disengaged from the keyhole slot.

22. The system of claim 20, wherein said fastening buttons are formed from a substantially electrically insulating material.

23. The system of claim 22, wherein said material is Nylon 6-6 or PVC.

24. The system of claim 20, wherein said keyhole slots are arranged in a polygonal or circular pattern, each said keyhole slot being spaced a substantially equal distance from each adjacent keyhole slot.

25. The system of claim 24, wherein the flat panel display can be selectively interchangeably oriented in at least a horizontal and a vertical orientation.